Introducing POLI Escola Politécnica da Universidade de São Paulo



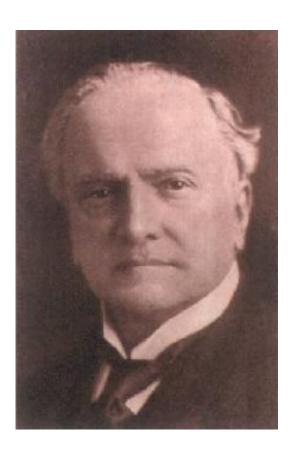
Prof.Dr. Silvio Ikuyo Nabeta Vice-Director





A bit of our history...

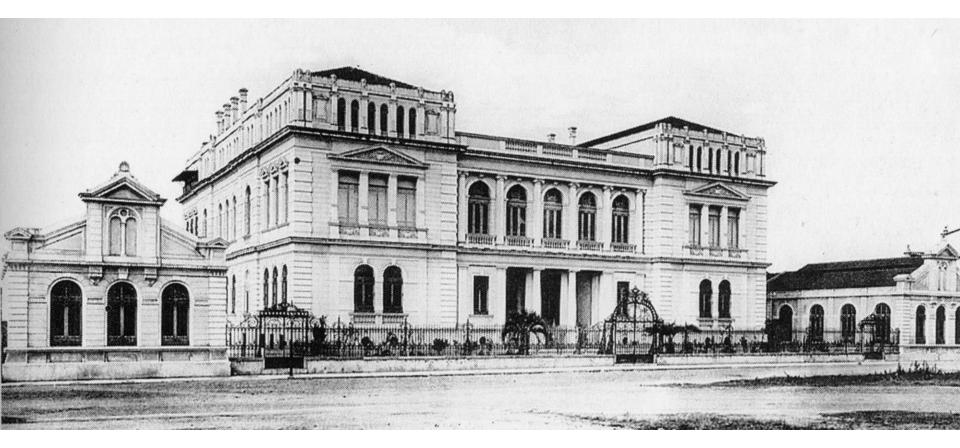
Escola Politécnica de São Paulo (Polytechnic School of São Paulo) was founded in <u>1893</u> by Antonio Francisco de Paula Souza, who from 1861 to 1863 studied engineering at Eidgenössische Technische Hochschule Zürich, and moved to Karlsruher Polytechnikum in 1864, where he got the degree of civil engineer in 1867.



Antonio Francisco de Paula Souza



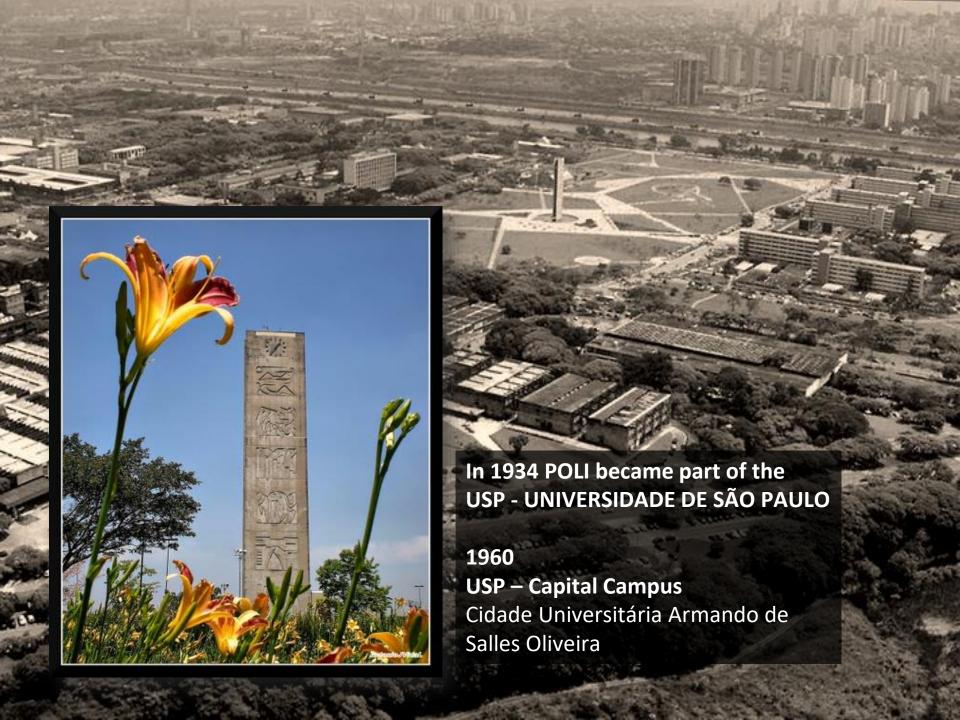
1894: Marquês de Três Rios manor house, adapted as Escola Politécnica's first building

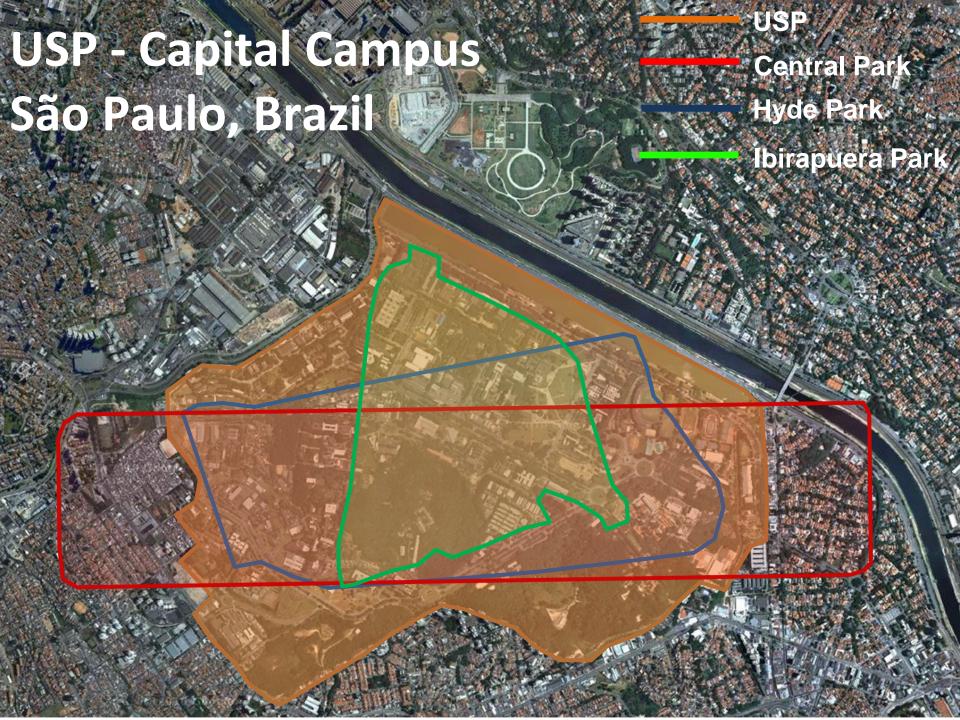


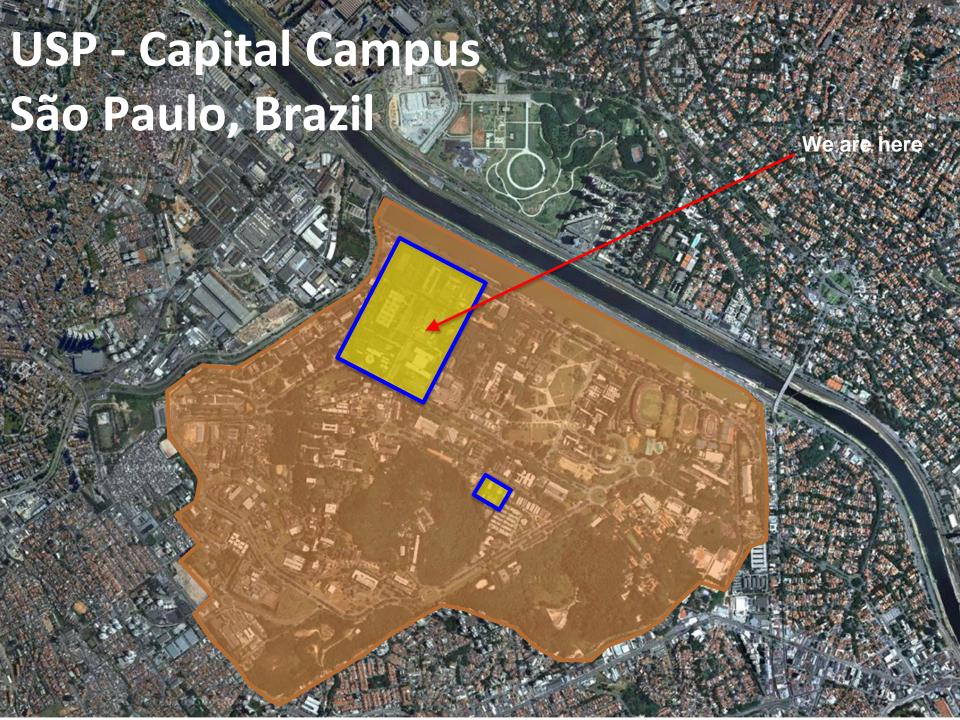
1899: building specially constructed to house Escola Politécnica, today named "Building Paula Souza"



Edifício Paula Souza













POLI today

POLI today

POLI

- 15 teaching and research departments
- 152.525 m² premises
- 26 buildings
- 168 research laboratories / groups

Human Resources

- About 415 faculty members (97% with PhD)
- About 390 non-teaching staff

Teaching and research departments

Civil	Civil Construction Engineering - PCC Structural and Geotechnical Engineering - PEF Hydraulic and Environmental Engineering - PHA Transportation Engineering - PTR
Electrical	Electrical Energy and Automation Engineering - PEA Computer and Digital Systems Engineering - PCS Electronic Systems Engineering - PSI Telecommunications and Control Engineering - PTC
Mechanical	Mechatronics and Mechanical Systems Engineering - PMR Mechanical Engineering - PME Naval and Ocean Engineering - PNV Industrial Engineering - PRO
Chemical	Chemical Engineering - PQI Mining and Petroleum Engineering - PMI Metallurgical and Materials Engineering - PMT

Students: approx. 12.500 in total

Undergraduate

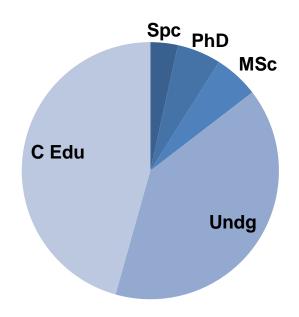
- 17 courses
- 4.750 students
- 870 newcomer students/year

Graduate

- 10 MSc programs
- 9 PhD programs
- 950 master students
- 630 doctor students
- 1700 "special students" (not yet applying for a degree)

Continuing Education

- 169 courses, with over 5.100 students
- 18 specialization and MBA-like courses





International Mobility of Undergraduate Students

International Mobility of Students

Undergraduation

- Various Exchange Programs for students
- Including Double Degree Programs for undergraduates

Postgraduation

- Several co-tutela agreements
- Dual PhD Programs

International Agreements in France





























































International Agreements in Italy

















International Agreements in Germany and Belgium





























International Agreements in Spain, Portugal, Netherlands, Hungary, Scotland...















UNIVERSITY OF TWENTE.



















International Agreements in Australia & Asia



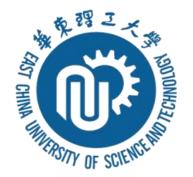












International Agreements in Canada, USA, Latin America































Participation in Academic Networks



Top Industrial Managers for Europe



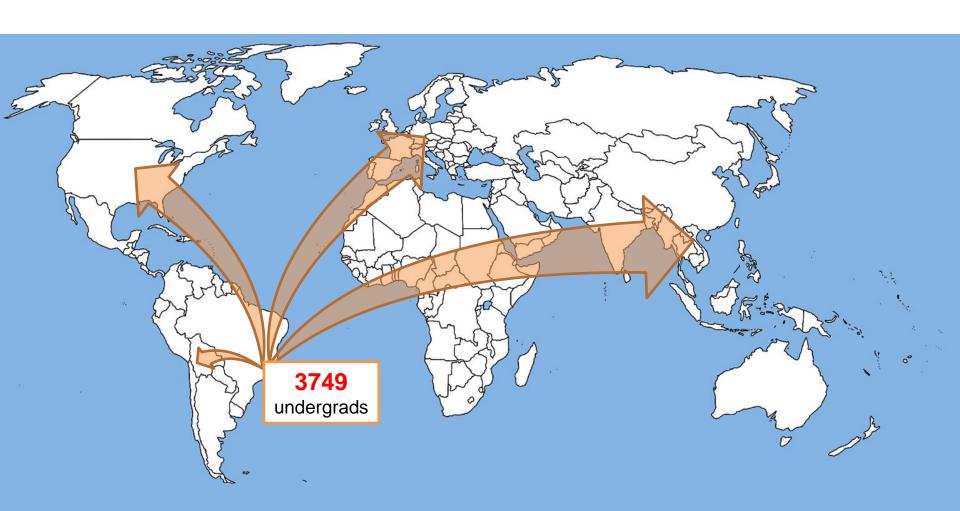
Magalhães
Smile framework
(Student Mobility in Latin America,
Caribbean and Europe)



International Mobility of Students recent years: 2001-2022

Double Degree programs: **1621** students to **6** countries

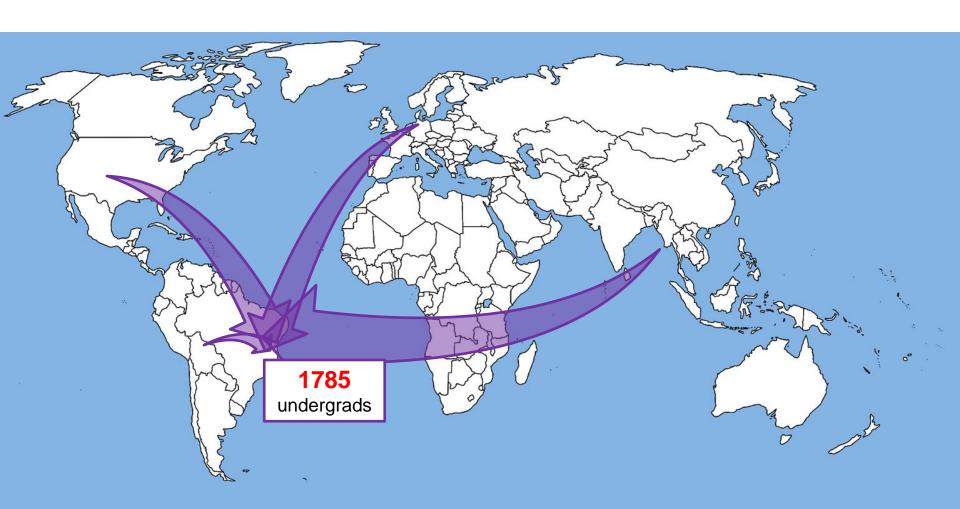
Exchange programs: **2128** students to **29** countries



International Mobility of Students recent years: 2001-2022

Exchange programs: **1535** students from **29** countries

Double Degree programs: **250** students from **6** countries





Research

Research

Research at POLI plays a major role in the development of the Brazilian industry and technology

About 168 research groups in action

 Research groups are formed by faculty members, researchers, graduate and undergraduate students

14 Multi-Users' Labs

- LAREX Laboratory of Recycling, Waste Treatment and Extraction
- LCT Laboratory of Technological Characterization
- TPN Numerical Offshore Tank
- GPSJ Research Group on Welding and Joining
- ENERQ Center for Studies in Regulation and Energy Quality
- LMO Laboratory of Offshore Mechanics
- RCGI Research for Greenhouse Gas Innovation
- Center mmW Millimeter Waves Center
- GAME Center of Applied Geophysics for Mechatronics and Engineering
- InTRA Integrated Technology for Rock and Fluid Analysis
- LME Laboratory of Microstructure and Eco-efficiency of Materials
- DMC Laboratory of Durability of Materials and Components
- LABMICRO Laboratory of Electron Microscopy

Multi-Users Labs

Technological Characterization Lab



Numerical Offshore Tank



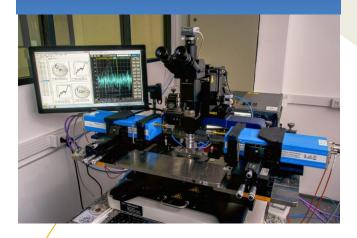
Center for Studies in Regulation and Energy Quality



Research Centre for Greenhouse Gas Innovation



Millimeter Wave Center



Multi-Users Labs

Laboratory of Recycling,
Waste Treatment and
Extraction



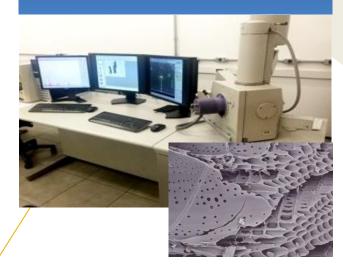
GAME-Center for Applied Geophysics



Integrated Technology for Rock and Fluid Analysis



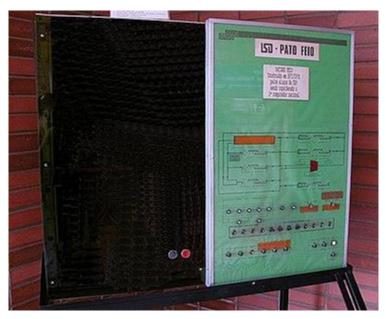
Laboratory of Electron Microscopy



Important Achievements



Research at POLI plays a major role in the development of the Brazilian industry and technology



Patinho Feio (Ugly Duckling): First brazilian computer (1972)



INSPIRE: Low-Cost Pulmonar Ventilator (2020) More than 1,000 assembled and distributed all over Brazil



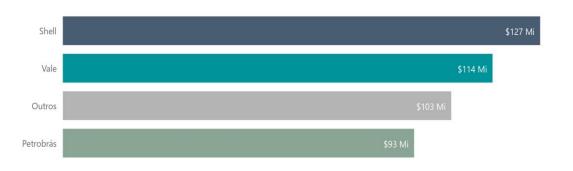
Contracts an Partnerships



133 Current R&D Projects

\$437.66 Mi







Thank you